

CLAIMS

1. A planetary gear arrangement comprising:
three rotatable members, a first of which is a planet carrier
assembly member having at least a planet carrier member and a plurality of
pinion gear members rotatably mounted on said planet carrier member, a
5 second of said rotatable members being disposed in meshing engagement
with at least one of said pinion gear members, a third of said rotatable
members being disposed in meshing engagement with at least one of said
pinion gear members; and
an active friction damper means disposed between and adapted to
10 selectively apply a frictional engagement to at least two of said rotatable
members during a torque reversal through said planetary gear arrangement.

2. The planetary gear arrangement defined in Claim 1 further
wherein:
said two members engaged by said active damper means are a sun
gear member and a ring gear member.

3. The planetary gear arrangement defined in Claim 1 further
wherein:
said two members engaged by said active damper means are a
ring gear member and said planet carrier member.

4. The planetary gear arrangement defined in Claim 1 further
wherein:
said two members engaged by said active damper means are a sun
gear member and said planet carrier member